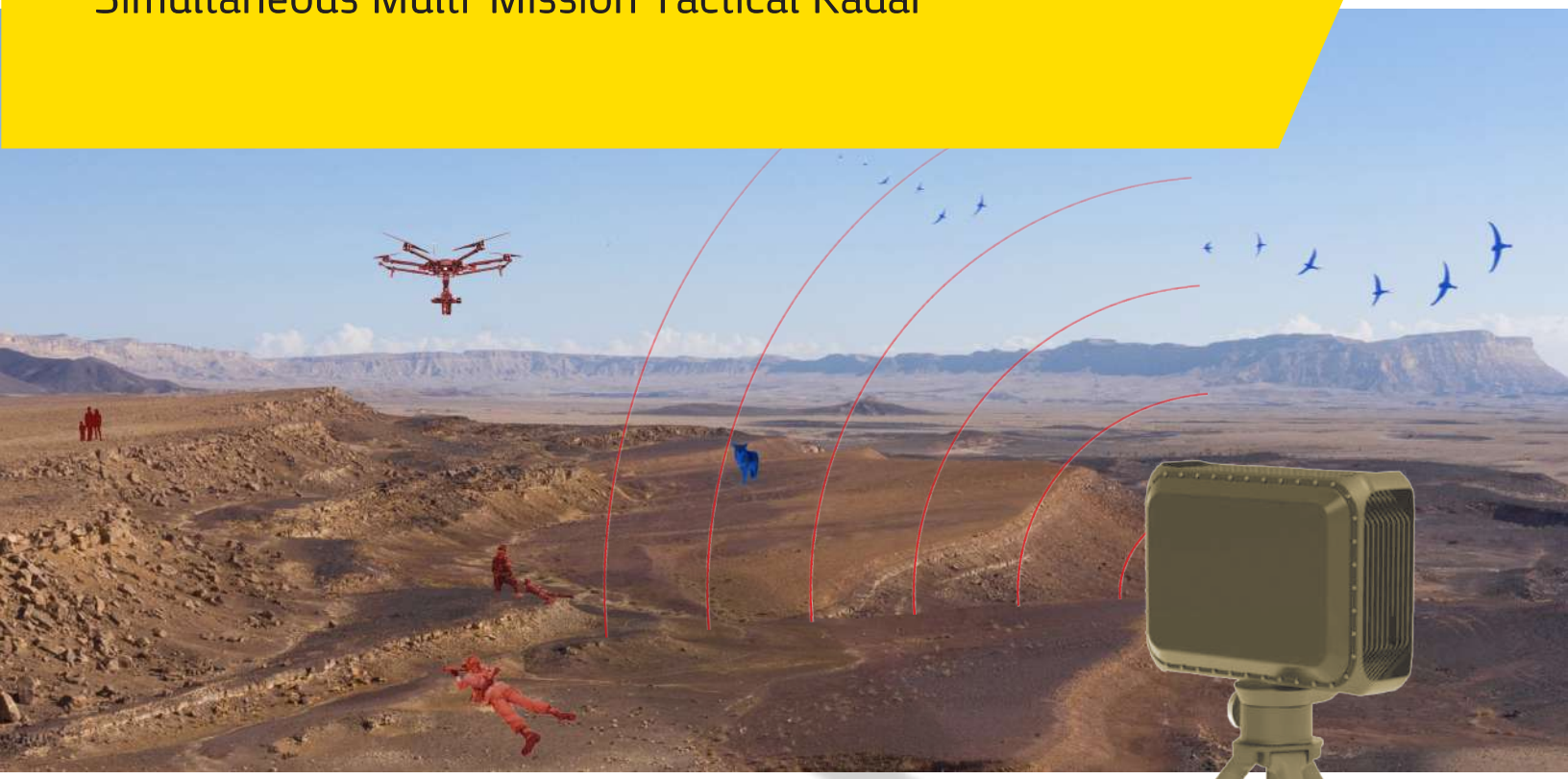
DAiR™

Simultaneous Multi-Mission Tactical Radar



Tactical terrain dominance, detects and classifies targets from ground air and sea, all at once

Features

- Operates at X-Band frequency
- Up to 10,000 tracking targets
- Simultaneous ground air and maritime targets
- Targets classification
- All targets get same resources from the radar, make targets prioritization redundant
- Software defined radar
- Compatible with All-purpose Structured EUROCONTROL Surveillance Information Exchange protocols (ASTERIX)

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DAiR™

Simultaneous Multi-Mission Tactical Radar

Description

DAiR™ is an X-band software defined radar system that incorporates hundreds of digital receivers, sophisticated algorithms and computing cores with Artificial Intelligence capabilities. The system is capable of simultaneous detection and tracking of thousands objects of various sizes and velocities, with no need for target prioritization.
The system comes with a range of adaptors, which allow flexible installation on tripods, walls, masts and vehicles. It can be offered as a sector antenna (coverage of 110° in azimuth), with a smart rotator (coverage of 360° in azimuth) or with multiple panels, full staring 360°.
Target information can be easily shared with any C4I system by using a standard ASTERIX protocol.

Technical Specifications

Performance	Values
Number of simultaneous targets	10,000
Minimal detection velocity	0.3 m/sec
Azimuth coverage (single panel)	110°
Azimuth coverage (with multiple panels or rotator)	360°
Elevation coverage	±40°
Update rate	4 Hz
Angular accuracy (Azimuth and elevation)	0.3°

Inbound Detection Ranges

Target type	Range
Person	15Km
Small Vehicle	25 Km
Large Vehicle	33 Km
Nano Drone	5 Km
Micro Drone	6 Km
Mini Drone	12 Km
Small UAV	15 Km
Small Aircraft	22 Km
Helicopter	30 Km
Vessel	60 Km

Physical Parameters	Values
Dimensions	520 x 387 x 218 (mm)
Power Consumption	340W
Weight 90° Radar Panel	27 Kg
Supply Voltage	16V to 33V DC, MIL-STD-1275E
Environmental Conditions	Qualified according to MIL-STD-810G
EMC/EMI	Qualified according to MIL-STD-461F
Operation Temperature	-32°C - +55°C
Communication	1Gbps Ethernet, RS485

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